



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0623.1090001/EKS/BJDAPPLICATION NO.
09/877,244APPLICANT
STADDON et al.FILING DATE
June 11, 2001GROUP
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
BL	AA1	5,155,031	10/13/92	Posner et al.	435	184	06/07/90
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
BL	AL1	WO 91/04745	04/18/1991	WIPO			Yes No
	AM1	JP 4-13631	01/17/1992	Japan			Abstract Yes No
	AN1	WO 95/13820	05/26/1995	WIPO			Yes No
	AO1	WO 96/16170	05/30/1996	WIPO			Yes No
	AP1	WO 98/14186	04/09/1998	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

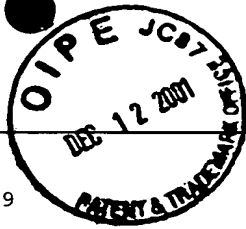
BL	AR	1	Aberle, H., et al., "Cadherin-Catenin Complex: Protein Interactions and Their Implications for Cadherin Function," J. Cell. Biochem. 61:514-523, Wiley-Liss, Inc. (1996).
BL	AS	1	Anderson, J.M., et al., "The structure and regulation of tight junctions," Curr. Opin. Cell Biol. 5(5):772-778, Current Biology Ltd. (1993).
BL	AT	1	Balda, M.S., et al., "Assembly of the Tight Junction: The Role of Diacylglycerol," J. Cell Biol. 123(2):293-302, The Rockefeller University Press (1993).

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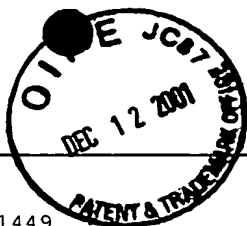
BL	AR	2	Behrens, J., et al., "Loss of Epithelial Differentiation and Gain of Invasiveness Correlates with Tyrosine Phosphorylation of the E-Cadherin/ β -Catenin Complex in Cells Transformed with a Temperature-sensitive v-SRC Gene," <i>J. Cell Biol.</i> 120(3):757-766, The Rockefeller University Press (1993).
BL	AS	2	Breier, G., et al., "Angiogenesis in Embryos and Ischemic Diseases," <i>Thromb. Haemost.</i> 78:678-683, F.K. Schattauer Verlagsgesellschaft (July 1997).
BL	AT	2	Citi, S., "Protein Kinase Inhibitors Prevent Junction Dissociation Induced by Low Extracellular Calcium in MDCK Epithelial Cells," <i>J. Cell Biol.</i> 117:169-178, The Rockefeller University Press (1992).

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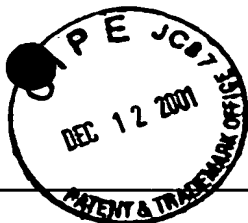
BL	AR	3	Citi, S., et al., "The role of phosphorylation in the assembly and disassembly of epithelial junctions," Molec. Biol. Cell 3(Suppl.):218a, Abstract No. 1262, The American Society for Cell Biology (1992).
BL	AS	3	Collares-Buzato, C.B., et al., "Junctional uvomorulin/E-cadherin and phosphotyrosine-modified protein content are correlated with paracellular permeability in Madin-Darby canine kidney (MDCK) epithelia," Histochemistry 101:185-194, Springer-Verlag (1994).
BL	AT	3	Crow, D.S., et al., "Phosphorylation of connexin43 in cells containing mutant src oncogenes," Oncogene 7:999-1003, Nature Publishing Group (1992).

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BL	AR	4	Daniel, J.M., and Reynolds, A.B., "Tyrosine phosphorylation and cadherin/catenin function," <i>BioEssays</i> 19:883-891, The Company of Biologists Limited (October 1997).
BL	AS	4	Downing, J.R., and Reynolds, A.B., "PDGF, CSF-1, and EGF induce tyrosine phosphorylation of p120, a pp60 ^{src} transformation-associated substrate," <i>Oncogene</i> 6:607-613, Nature Publishing Group (1991).
BL	AT	4	Durieu-Trautmann, O., et al., "Nitric Oxide and Endothelin Secretion by Brain Microvessel Endothelial Cells: Regulation by Cyclic Nucleotides," <i>J. Cell. Physiol.</i> 155:104-111, Wiley-Liss, Inc. (1993).

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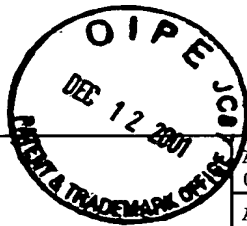
BL	AR	<u>5</u>	Fantus, I.G., et al., "Pervanadate [Peroxide(s) of Vanadate] Mimics Insulin Action in Rat Adipocytes via Activation of the Insulin Receptor Tyrosine Kinase," <i>Biochemistry</i> 28:8864-8871, American Chemical Society (1989).
BL	AS	<u>5</u>	Ferrara, N., and Davis-Smyth, T., "The Biology of Vascular Endothelial Growth Factor," <i>Endocrine Rev.</i> 18:4-25, The Endocrine Society (February 1997).
BL	AT	<u>5</u>	Filson, A.J., et al., "Tyrosine Phosphorylation of a Gap Junction Protein Correlates with Inhibition of Cell-to-Cell Communication," <i>Cell Growth Differ.</i> 1:661-668, American Association for Cancer Research (1990).

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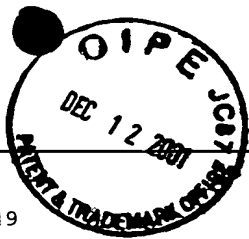
BL	AR	6	Fong, T.A.T., <i>et al.</i> , "SU5416 Is a Potent and Selective Inhibitor of the Vascular Endothelial Growth Factor Receptor (Flk-1/KDR) That Inhibits Tyrosine Kinase Catalysis, Tumor Vascularization, and Growth of Multiple Tumor Types," <i>Cancer Res.</i> 59:99-106, The American Association for Cancer Research (1999).
BL	AS	6	Galaktionov, K., and Beach, D., "Specific Activation of cdc25 Tyrosine Phosphatases by B-Type Cyclins: Evidence for Multiple Roles of Mitotic Cyclins," <i>Cell</i> 67:1181-1194, Cell Press (1991).
BL	AT	6	Garcia-Morales, P., <i>et al.</i> , "Tyrosine phosphorylation in T cells is regulated by phosphatase activity: Studies with phenylarsine oxide," <i>Proc. Natl. Acad. Sci. USA</i> 87:9255-9259, The National Academy of Sciences (1990).

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BL	AR	7	Gumbiner, B., and Simons, K., "A Functional Assay for Proteins Involved in Establishing an Epithelial Occluding Barrier: Identification of a Uvomorulin-like Polypeptide," <i>J. Cell Biol.</i> 102:457-468, The Rockefeller University Press (1986).
BL	AS	7	Gumbiner, B., et al., "The Role of the Cell Adhesion Molecule Uvomorulin in the Formation and Maintenance of the Epithelial Junctional Complex," <i>J. Cell Biol.</i> 107:1575-1587, The Rockefeller University Press (1988).
BL	AT	7	Gumbiner, B.M., "Cell Adhesion: The Molecular Basis of Tissue Architecture and Morphogenesis," <i>Cell</i> 84:345-357, Cell Press (1996).

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Page 8 of 24



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<i>M</i>	AR	<u>8</u>	Hamaguchi, M., et al., "p60 ^{src} causes tyrosine phosphorylation and inactivation of the N-Cadherin-catenin cell adhesion system," <i>EMBO J.</i> 12(1):307-314, Oxford University Press (1993).
<i>M</i>	AS	<u>8</u>	Hedrick, L., et al., "Cell adhesion molecules as tumour suppressors," <i>Trends Cell Biol.</i> 3(2):36-39, Elsevier Science Ltd. (1993).
<i>M</i>	AT	<u>8</u>	Heffetz, D., et al., "The Insulinomimetic Agents H ₂ O ₂ and Vanadate Stimulate Protein Tyrosine Phosphorylation in Intact Cells," <i>J. Biol. Chem.</i> 265:2896-2902, The American Society for Biochemistry and Molecular Biology, Inc. (1990).

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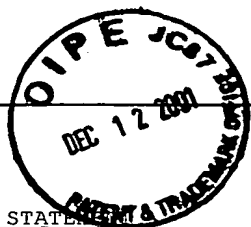
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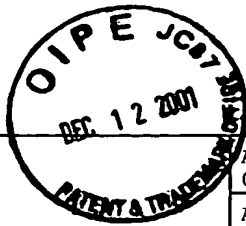
<i>ML</i>	AR	<u>9</u>	Herrenknecht, K., et al., "Endothelial Cadherins And The Regulation Of Tight Junction Permeability," Abstract (distributed at meeting) from British Society for Immunology Spring Meeting 1994, University of Southampton, United Kingdom, March 23-25, 1994.
<i>ML</i>	AS	<u>9</u>	Izumi, T., et al., "Periodic Changes in Phosphorylation of the <i>Xenopus</i> cdc25 Phosphatase Regulate Its Activity," <i>Mol. Biol. Cell</i> 3:927-939, American Society for Cell Biology (1992).
<i>ML</i>	AT	<u>9</u>	John, V., et al., "The effect of cyclic AMP-dependent protein kinase inhibitors on electrical resistance in the cell culture model for the blood-brain barrier," <i>Pharm. Pharmacol. Lett.</i> 3:190-193, Springer-Verlag (1994).

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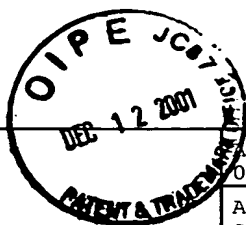
BL	AR	<u>10</u>	Jones, A., and Harris, A.L., "New Developments in Angiogenesis: A Major Mechanism for Tumor Growth and Target for Therapy," <i>Cancer J.</i> 4:209-217, Scientific American (July-August 1998).
BL	AS	<u>10</u>	Kanner, S.B., et al., "Tyrosine Phosphorylation of a 120-Kilodalton pp60 ^{src} Substrate upon Epidermal Growth Factor and Platelet-Derived Growth Factor Receptor Stimulation and in Polyomavirus Middle-T-Antigen-Transformed Cells," <i>Mol. Cell. Biol.</i> 11:713-720, American Society for Microbiology (1991).
BL	AT	<u>10</u>	Kurihara, H., et al., "Increased Tyrosine Phosphorylation Accompanies Modification of Tight Junctions Between Foot Processes of Glomerular Epithelial Cells (GEC)," <i>Mol. Biol. Cell</i> 3(Suppl.):218a, Abstract No. 1263, American Society for Cell Biology (1992).

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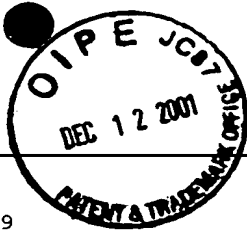
BL	AR	11	Kurihara, H., et al., "Localization and Dynamics of Tight Junction Protein, ZO-1 in Rat Glomerular Epithelial Cells," <i>Cell Struct. Funct.</i> 17(6):493, Abstract No. 1D-1615, Japan Society of Cell Biology (1992).
BL	AS	11	Langeler, E.G., and van Hinsbergh, V.W.M., "Norepinephrine and iloprost improve barrier function of human endothelial cell monolayers: role of cAMP," <i>Am. J. Physiol.</i> 260:c1052-c1059, American Physiological Society (1991).
BL	AT	11	Levenson, R.M., and Blackshear, P.J., "Insulin-stimulated Protein Tyrosine Phosphorylation in Intact Cells Evaluated by Giant Two-dimensional Gel Electrophoresis," <i>J. Biol. Chem.</i> 264:19984-19993, The American Society for Biochemistry and Molecular Biology (1989).

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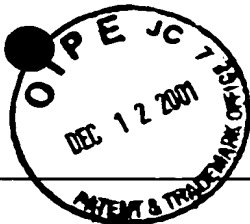
BL	AR	<u>12</u>	Liebow, C., et al., "Somatostatin analogues inhibit growth of pancreatic cancer by stimulating tyrosine phosphatase," <i>Proc. Natl. Acad. Sci. USA</i> 86:2003-2007, The National Academy of Sciences (1989).
BL	AS	<u>12</u>	Linder, M.E., and Burr, J.G., "Nonmyristoylated p60 ^{v-src} fails to phosphorylate proteins of 115-120 kDa in chicken embryo fibroblasts," <i>Proc. Natl. Acad. Sci. USA</i> 85:2608-2612, The National Academy of Sciences (1988).
BL	AT	<u>12</u>	Lum, H., and Malik, A.B., "Mechanisms of increased endothelial permeability," <i>Can. J. Physiol. Pharmacol.</i> 74:787-800, NRC Canada (1996).

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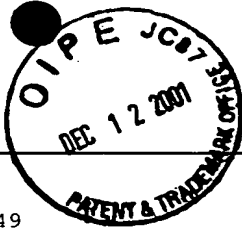
BL	AR	<u>13</u>	Madara, J.L., "Tight Junction Dynamics: Is Paracellular Transport Regulated?," Cell 53:497-498, Cell Press (1988).
BL	AS	<u>13</u>	Martinez-Palomo, A., et al., "Experimental Modulation of Occluding Junctions in a Cultured Transporting Epithelium," J. Cell Biol. 87:736-745, The Rockefeller University Press (1980).
BL	AT	<u>13</u>	Matsuyoshi, N., et al., "Cadherin-Mediated Cell-Cell Adhesion Is Perturbed by v-src Tyrosine Phosphorylation in Metastatic Fibroblasts," J. Cell Biol. 118:703-714, The Rockefeller University Press (1992).

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
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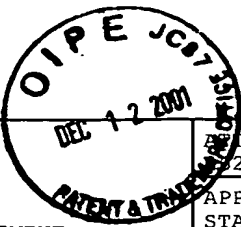
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BL	AS	14	Mullin, J.M., <i>et al.</i> , "Modulation of tumor necrosis factor-induced increase in renal (LLC-PK ₁) transepithelial permeability," <i>Am. J. Physiol.</i> 263:F915-F924, American Physiological Society (1992).
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Page 15 of 24

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

PAT. DOCKET NO.

23.1090001/EKS/

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STADDON et al.

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AR	15	Neufeld, G., et al., "Similarities and differences between the vascular endothelial growth factor (VEGF) splice variants," <i>Cancer Metastasis Rev.</i> 15:153-158, Kluwer Academic Publishers (1996).
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AT	15	Ratcliffe, M.J., et al., "Dephosphorylation of the Cadherin-associated p100/p120 Proteins in Response to Activation of Protein Kinase C in Epithelial Cells," <i>J. Biol. Chem.</i> 272:31894-31901, The American Society for Biochemistry and Molecular Biology, Inc. (December 1997).

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STADDON et al.FILING DATE
June 11, 2001GROUP
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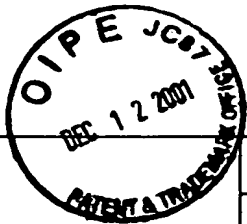
Be	AR	<u>16</u>	Ratcliffe, M.J., et al., "Dephosphorylation of the catenins p120 and p100 in endothelial cells in response to inflammatory stimuli," <i>Biochem. J.</i> 338:471-478, Biochemical Society (1999).
Bx	AS	<u>16</u>	Rubin, L.L., et al., "A Cell Culture Model of the Blood-Brain Barrier," <i>J. Cell Biol.</i> 115:1725-1735, The Rockefeller University Press (1991).
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STADDON et al.FILING DATE
June 11, 2001GROUP
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BL	AR	17	Rubin, L.L., and Staddon, J.M., "Regulation Of Blood-Brain Barrier Permeability," Abstract (distributed at meeting) from XXXII International Union of Physiological Sciences (IUPS) Congress, Glasgow, UK, August 4-6, 1993.
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BL	AR	<u>18</u>	Rubin, L.L., <i>et al.</i> , "Tight Junctions and the Blood-Brain Barrier," in: <i>Cell Culture in Pharmaceutical Research</i> , Fusenig, N.E., and Graf, H., eds., Berlin: Springer-Verlag, pp. 69-77 (1994).
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	AN						Yes No
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BL	AR	<u>20</u>	Staddon, J.M., et al., "Evidence that tyrosine phosphorylation may increase tight junction permeability," <i>J. Cell Sci.</i> 108(2):609-619, The Company Of Biologists Ltd. (1995).
BL	AS	<u>20</u>	Staddon, J.M., et al., "p120, a p120-Related Protein (p100), and the Cadherin/Catenin Complex," <i>J. Cell Biol.</i> 130:369-381, The Rockefeller University Press (1995).
BL	AT	<u>20</u>	Stelzner, T.J., et al., "Role of Cyclic Adenosine Monophosphate in the Induction of Endothelial Barrier Properties," <i>J. Cell. Physiol.</i> 139:157-166, Alan R. Liss, Inc. (1989).

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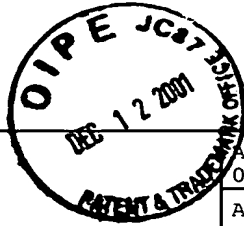
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Page 21 of 24



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INFORMATION DISCLOSURE STATEMENT

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STADDON et al.

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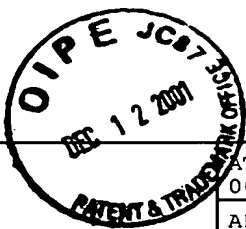
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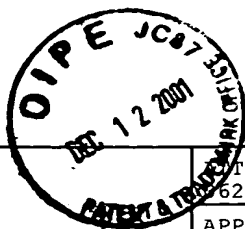
BL	AR	22	Tsukita, S., et al., "Specific Proto-Oncogenic Tyrosine Kinases of src Family Are Enriched in Cell-to-Cell Adherens Junctions Where the Level of Tyrosine Phosphorylation Is Elevated," <i>J. Cell Biol.</i> 113:867-879, The Rockefeller University Press (1991).
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BL	AT	22	Vermeulen, S., et al., "Regulation of the Invasion Suppressor Function of the Cadherin/Catenin Complex," <i>Path. Res. Pract.</i> 192:694-707, Gustav Fischer Verlag (1996).

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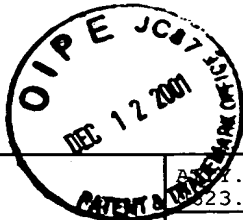
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BL	AS	<u>23</u>	Warren, S.L., and Nelson, W.J., "Nonmitogenic Morphoregulatory Action of pp60 ^{v-src} on Multicellular Epithelial Structures," <i>Mol. Cell. Biol.</i> 7:1326-1337, American Society for Microbiology (1987).
BL	AT	<u>23</u>	Wong, E.Y.M., <i>et al.</i> , "Vascular endothelial growth factor stimulates desphosphorylation of the catenins p120 and p100 in endothelial cells," <i>Biochem. J.</i> 346:209-216, Biochemical Society (2000).

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June 11, 2001GROUP
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PH	AR	24	Uehara, Y., et al., "Irreversible Inhibition Of V-src Tyrosine Kinase Activity By Herbimycin A And Its Abrogation By Sulphydryl Compounds," Biochem. Biophys. Res. Commun. 163:803-809, Academic Press, Inc. (1989).
PH	AS	24	English-language abstract for Japanese patent document No. JP 4-13631 (Doc. Ref. No. AM1), Derwent WPI Accession No. 8942154.
	AT	24	Pending Non Provisional United States Patent Application No. 09/848,353, Staddon et al., filed May 4, 2001.

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